Form PTO 1449 U.S. Dept of Commerce Rev 7-80 Patent & Trademark Off.

: Atty. Docket No. : Serial No.

: SJ0920020014US2: not yet assigned

: Inventor: R. S. Beach

(Use several sheets if necessary)

: Filed: herewith Group Unit: not yet assigned

U.S. PATENT DOCUMENTS

EXAM.:	: DOCUMENT			CL ACC/	<u> </u>
INTL.:	: NUMBER	DATE	NAME	CLASS/	FILING
2 :AA:	6,129,957			SUBCLASS	DATE
177	•	10/10/00	R. Xiao et al.	427/548	10/12/99
:AB:	5,465,185	11/07/95	D. E. Heim et al.	360/113	10/15/93
- :AC:	5,729,410	03/17/98	R. E. Fontana Jr. Et al.	360/113	11/27/96
:AD:	6,005,753	12/21/99	R. E. Fontana Jr. Et al.	360/113	
:AE:	6,249,406B1	06/19/01	H. Gill et al.		05/29/98
:AF:	6,219,211B1	04/17/01		360/324.11	09/23/96
:AG:			H. Gill et al.	360/324.11	01/31/00
	5,867,351 t	02/02/99	H. Gill	360/113	07/25/97
:AH:	6,469,878B1	10/22/02	A. Mack et al.	360/324.12	02/08/00
:AI:	6,411,478B1	06/25/02	S. Mao et al.	360/324.2	
:AJ:	6,097,579	08/01/00	H. Gill	· · · —	02/08/00
:AK:	6,023,395	02/08/00		360/324.2	08/21/98
:AL:	•		F. Dill et al.	360/113	05/29/98
W/	5,768,069	06/16/98	D. Mauri	360/113	11/27/96
(AM:	6,137,662	10/24/00	Y. Huai et al.	360/327.22	04/07/98
:AN:	6,487,056B1	11/26/02	M. Gibbons et al.	360/327.31	
	·	. = 3, 4=	Gibbono et al.	300/327.31	05/20/02

OTHER PRIOR ART (INCLUD. AUTHOR, TITLE, DATE, PERTINENT PG.,ETC.)

SA: R. S. Beach et al., "Orthogonal Pinning of Two Ferromagnetic Layers in a Synthetic Spin Yalve", June 17 2002, Applied Physics Letters, Vol. 80, No. 24, pages 4576 - 4578.

CB: O. Bedon et al. "Extra Current Channels in Longitudinally Biography."

CB: O. Redon et al. "Extra Current Channels in Longitudinally Biased Magnetic Tunnel Junctions", Journal of Applied Physics, Vol. 87, No. 9, May 1, 2000, pages 4688-4690.

EXAMINER

DATE CONSIDERED

*EXAMINEP: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).